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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

(Currently Amended) A method of assigning objects to processing units of a
cluster of processing units, each one of the processing units having [[a]] storage
capacity capacities, the method being executed by a computer and comprising the
steps of:

<u>storing</u>, in a storage device of the computer, the objects and the object sizes; sorting of the objects by size to provide a sequence of objects; and for eachprocessing unit of the cluster;

assigning ef ene ef the objects to the processing [[unit]] units starting with the largest object in the sequence until a remaining storage capacity of one of the processing [[unit]] units is below the smallest object of the sequence, wherein the remaining storage capacity is determined by a difference between a storage capacity of the one processing unit and an aggregated size of objects being assigned to the one processing unit; [[and]]

deleting, from the sequence, [[of]] the objects which [[are]] have been assigned to a processing unit from the sequence;

determining, after assignment of the sequence of objects to the processing units,

a processing unit having a largest gap based on the aggregated size of the assigned
objects and remaining storage capacities of the processing units;

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dividing the largest gap with a minimum number of the processing units to which the objects have been assigned:

calculating a first threshold value by subtracting a result of the division from a storage capacity of the processing unit having the largest gap; and

reassigning the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one the processing units is below the smallest object of the sequence, wherein during reassignment the remaining storage capacity is the difference between an aggregated size of the objects being reassigned and the first threshold.

- 2. (Currently Amended) The method of claim 1, wherein the steps of assigning ef one or more of the objects to the processing unit starting with the largest object in the sequence until a remaining storage capacity of the processing unit is below the smallest object of the sequence and deleting of the objects after assignment which are assigned to a processing unit from the sequence are carried out repeatedly until the sequence is empty which provides [[a]] the minimum number of the processing units required for the assignment.
 - 3-6. (Cancelled).
- 7. (Currently Amended) The method of claim 1, further comprising the steps of:

stepwise varying a third second threshold between a first limit and a second limits limit; and for each processing unit of the cluster:

assigning of one or more reassigning, based on the second threshold, at least one of the objects to one of the processing [[unit]] units starting with the largest object in the sequence until a remaining storage capacity of the processing unit is below the smallest object of the sequence, wherein the remaining storage capacity, during reassignment based on the second threshold value, is the difference between the aggregated size of the objects being reassigned and the second threshold; [[and]]

deleting, from the sequence, [[of]] the objects which are assigned reassigned to a processing unit from the sequence for each third based on the second threshold value, wherein the remaining storage capacity is the difference between the aggregated size of the objects being assigned to the processing unit and the third threshold, and wherein a statistical measure is calculated for the assignment reassignment of objects to the processing unit; and

selecting of one of the assignments reassignments of the objects to processing units based on the statistical measure.

8. (Currently Amended) The method of claim 7, wherein the first limit is the aggregated size of the objects divided by the minimum number of processing units, and wherein the second limit is [[the]] a storage capacity of one of the processing units.

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(Previously Presented) The method of claim 7, wherein the statistical
measure is calculated by calculation of the standard deviation or the variance of the
totals of the sizes of objects assigned to one processing unit.

- (Previously Presented) The method of claim 1, wherein the objects are database tables of various sizes.
- (Currently Amended) The method of claim 1, wherein [[each]] one of the processing units is a blade or a blade server.
- 12. (Currently Amended) A computer program product <u>tangibly embodied in a computer-readable storage medium and comprising instructions which, when executed on a processor, causes the processor to perform a method for assigning objects to processing units of a cluster of processing units, each one of the processing units having [[a]] storage <u>capacities</u> eapacity, the computer program product comprising-program means for performing the <u>method comprising the</u> steps of:</u>

sorting of the objects by size to provide a sequence of objects; and for eachprocessing unit of the cluster; assigning of one or more of the objects to the processingunit starting with the largest object in the sequence until a remaining storage capacity of
the processing unit is below the smallest object of the sequence; and deleting of the
objects which are assigned to a processing unit from the sequence

assigning the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one of the processing units is below the

smallest object of the sequence, wherein the remaining storage capacity is determined

by a difference between a storage capacity of the one processing unit and an

aggregated size of objects being assigned to the one processing unit:

deleting, from the sequence, the objects which have been assigned;

determining, after assignment of the sequence of objects to the processing units,
a processing unit having a largest gap based on the aggregated size of the assigned
objects and remaining storage capacities of the processing units;

dividing the largest gap with a minimum number of the processing units to which the objects have been assigned;

calculating a first threshold value by subtracting a result of the division from a storage capacity of the processing unit having the largest gap; and

reassigning the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one the processing units is below the smallest object of the sequence, wherein during reassignment the remaining storage capacity is the difference between an aggregated size of the objects being reassigned and the first threshold.

13. (Currently Amended) The computer program product of claim 12, the program means being adapted to repeatedly carry out for each processing unit of the cluster:

assigning ef one or more of the objects to the processing [[unit]] units starting with the largest object in the sequence until a remaining storage capacity of [[the]] one of the processing [[unit]] units is below the smallest object of the sequence; and

deleting [[of]] the objects which [[are]] have been assigned to a processing unit from the sequence until the sequence is empty; and

to output a outputting the minimum number of the processing units, which are required for the assignment of the objects.

14-16. (Cancelled).

17. (Currently Amended) The computer program product of claim 12, the program means being adapted to perform the steps of:

stepwise varying a third second threshold between a first limit and a second limits limit: for each processing unit of the cluster:

assigning of one or more reassigning, based on the second threshold, at least one of the objects to one of the processing [[unit]] units starting with the largest object in the sequence until a remaining storage capacity of the processing unit is below the smallest object of the sequence, wherein the remaining storage capacity, during reassignment based on the second threshold value, is the difference between the aggregated size of the objects being reassigned and the second threshold: [[and]]

deleting, from the sequence, [[of]] the objects which are assigned reassigned to a processing unit from the sequence for each third based on the second threshold value, wherein the remaining storage capacity is the difference between the aggregated size of the objects being assigned to the processing unit and the third threshold, and wherein a statistical measure is calculated for the assignment reassignment of objects to the processing unit; and

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selecting of one of the assignments reassignments of the objects to processing units based on the statistical measure.

18. (Currently Amended) A data processing system for <u>assigning objects to</u> determining a minimum number of processing units of a cluster of processing units, the <u>processing units having storage capacities and the</u> for a given number of objects having various sizes, the data processing system comprising:

means for storing the objects and the object sizes;

means for sorting of the objects by size to provide a sequence of objects;

means for assigning ef-one-or-more of the objects to a processing [[unit]] units starting with the largest object in the sequence until a remaining storage capacity of one of the processing [[unit]] units is below the smallest object of the sequence, wherein the remaining storage capacity is determined by a difference between a storage capacity of the one processing unit and an aggregated size of objects being assigned to the one processing unit; and means for outputting of the minimum number of the processing-units

means for deleting, from the sequence, objects which have been assigned;

means for determining, after assignment of the sequence of objects to the

processing units, a processing unit having a largest gap based on the aggregated size

of the assigned objects and remaining storage capacities of the processing units;

means for dividing the largest gap with a minimum number of the processing

units to which the objects have been assigned;

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means for calculating a first threshold value by subtracting a result of the division

from a storage capacity of the processing unit having the largest gap; and

means for reassigning the objects to the processing units starting with the largest

object in the sequence until a remaining storage capacity of one the processing units is

below the smallest object of the sequence, wherein during reassignment the remaining

storage capacity is the difference between an aggregated size of the objects being

reassigned and the first threshold.

19. (Original) The data processing system of claim 18, each processing unit

being a single-board computer having a bus interface to a bus system that couples the

single-board computers.

20. (Cancelled).

21. (New) A method of assigning objects to processing units of a cluster of

processing units, the processing units having storage capacities, the method being

executed by a computer and comprising the steps of:

storing, in a storage device of the computer, the objects and the object sizes:

sorting of the objects by size to provide a sequence of objects;

assigning the objects to the processing units starting with the largest object in the

sequence until a remaining storage capacity of one of the processing units is below the

smallest object of the sequence, wherein the remaining storage capacity is determined

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by a difference between a storage capacity of the one processing unit and an aggregated size of objects being assigned to the one processing unit;

deleting, from the sequence, the objects which have been assigned;

determining a total of the sizes of the objects;

determining a difference between a total of storage capacities of a minimum number of processing units and the total of the sizes of the objects;

subtracting the difference divided by the minimum number of processing units from the storage capacity to provide a threshold value;

reassigning, based on the threshold value, the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one of the processing units is below the smallest object of the sequence, wherein the remaining storage capacity, during reassignment, is determined by the difference between the aggregated size of the objects being reassigned to the one processing unit and the threshold value; and

deleting the objects which are reassigned from the sequence; and dividing an excess amount by the minimum number of processing units and increasing the threshold value by the result of the division, when after the deleting of the reassigned objects there is an excess amount of memory requirement for one of the processing units which surpasses the storage capacity of the one processing unit,

wherein the steps of deleting the objects, dividing the excess amount by the minimum number of processing units, and increasing the threshold value are performed repeatedly until there is no such excess amount.

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22. (New) The method of claim 21, wherein when there is no such excess amount but a gap, dividing the gap by the minimum number of processing units and decreasing the threshold value by the result of the division.

- (New) The method of claim 21, wherein one of the processing units is a blade or a blade server.
- 24. (New) A computer program product tangibly embodied in a computerreadable storage medium and comprising instructions which, when executed on a processor, causes the processor to perform a method for assigning objects to processing units of a cluster of processing units, the processing units having storage capacities, the method comprising the steps of:

sorting of the objects by size to provide a sequence of objects;

assigning the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one of the processing units is below the smallest object of the sequence, wherein the remaining storage capacity is determined by a difference between a storage capacity of the one processing unit and an aggregated size of objects being assigned to the one processing unit;

deleting, from the sequence, the objects which have been assigned;

determining a total of the sizes of the objects;

determining a difference between a total of storage capacities of a minimum number of processing units and the total of the sizes of the objects;

from the storage capacity to provide a threshold value:

reassigning, based on the threshold value, the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one of the processing units is below the smallest object of the sequence, wherein the

subtracting the difference divided by the minimum number of processing units

remaining storage capacity, during reassignment, is determined by the difference

between the aggregated size of the objects being reassigned to the one processing unit

and the threshold value;

deleting the objects which are reassigned from the sequence; and

dividing an excess amount by the minimum number of processing units and

increasing the threshold value by the result of the division, when after the deleting of the reassigned objects there is an excess amount of memory requirement for one of the

processing units which surpasses the storage capacity of the one processing unit,

wherein the steps of deleting the objects, dividing the excess amount by the

minimum number of processing units, and increasing the threshold value are performed

repeatedly until there is no such excess amount.

25. (New) The computer program product of claim 24, wherein one of the

processing units is a blade or a blade server.

26. (New) A data processing system for determining a minimum number of

processing units of a cluster of processing units for a given number of objects having

various sizes, the data processing system comprising:

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means for storing the objects and the object sizes;

means for sorting of the objects by size to provide a sequence of objects;

means for assigning the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one of the processing units is below the smallest object of the sequence, wherein the remaining storage capacity is determined by a difference between a storage capacity of the one processing unit and an aggregated size of objects being assigned to the one processing unit;

means for deleting, from the sequence, the objects which have been assigned; means for determining a total of the sizes of the objects;

means for determining a difference between a total of storage capacities of a minimum number of processing units and the total of the sizes of the objects; and

means for subtracting the difference divided by the minimum number of processing units from the storage capacity to provide a threshold value;

means for reassigning, based on the threshold value, the objects to the processing units starting with the largest object in the sequence until a remaining storage capacity of one of the processing units is below the smallest object of the sequence, wherein the remaining storage capacity, during reassignment, is determined by the difference between the aggregated size of the objects being reassigned to the one processing unit and the threshold value;

means for deleting the objects which are reassigned from the sequence; and means for dividing an excess amount by the minimum number of processing units and increasing the threshold value by the result of the division, when after the deleting of the reassigned objects there is an excess amount of memory requirement for

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one of the processing units which surpasses the storage capacity of the one processing unit.

wherein the steps of deleting the objects, dividing the excess amount by the minimum number of processing units, and increasing the threshold value are performed repeatedly until there is no such excess amount.

 (New) The data processing system of claim 26, wherein one of the processing units is a blade or a blade server.